

---LE'VZ 200/300 OOPs---

MARCH 1986. #11 \$1.00.

J.C.E.D'ALTON.

Bonjoi computing friends (OOPs).

I have been asked what is the difference between the Software Short list and a long list. I have used the short list format in the last couple of LE'VZs to allow more space for other items. The Long List is about two Pages long, giving a very brief description of each item of software. I will Print a Long List in Perhaps # 12 issue.

Please note that back issues of LE'VZ are now \$1.50 each. I keep on getting requests for back issues, which is quite time consuming in that I have to set up the masters again to copy just a few. If you are waiting on back issues, Please be Patient. If you do not receive them with your regular/Present issue or within a month or so, Please remind me.



I would like to hear from OOPs or friends who have the Disc System. Are you having any trouble with it at all? Larry Taylor did have a Problem with his after a few days of Purchasing it. I have not had any trouble at all "touch wood", and it gets Plenty of use as you might imagine with my D'BASE development. I have heard of one case of a Commodore drive actually chewing up discs. Have you had Problems because you have travelled in electric trains or trams while carrying discs?

An interesting letter from Grant Calhoun of Eungai Creek, (in NSW but where in NSW) arrived in December. Grant has a farm and has not the luxury of 240 volt Power from the NSW grid. He has a 36volt battery which is charged by a Petrol (soon steam) driven generator.

So he has a 36v bus, a 12v bus, and a 240v inverter driven bus. Bus meaning LINE not Passenger bus. He has two Disc Drives which were not operating at the time, because of voltage regulation Problems. Perhaps Grant you may like to let me know how you are going now in this regard.

Grant sent me his contribution of his system interfaced with the "CHATTERBOX" speech synthesiser from E.T.I. Jan 1985. See Page 6 .

I trust that you can read the reduced Pages OK, as I am now getting more contributions, it's the only way of confining LE'VZ to 10 Pages. I was going to include another listing of VZ items as contributed by Mr.Bob Kitch, but again space does not Permit it. He has about another 60 items, to add to the LE'VZ #10 list. Remember to communicate directly to Bob. Mr.R.KITCH, 7 EURELLA ST., KENMORE. QLD. 4069.

Please let me know what you would like Printed in LE'VZ. In Particular we Aussies would like to hear from our Kiwi friends.

Well that's it for now. Marie and I wish you all the best of Gods blessings for another special time of the year, EASTER.


```

2110 PRINT"-----"
2120 PRINT:PRINT:PRINT
2130 IF(1)=1AND(2)=1AND(3)=1ANDR=1,S=50ELSE2200
2140 PRINT" "S:PRINT:PRINT"CONGRATULATIONS, YOU HAVE"
2150 PRINT"COMPLETED THE ADVENTURE!!":FORI=1TO100000:NEXT:CLS:END
2200 IF(1)=1OR(2)=1OR(3)=1,S=20
2240 IF(1)=1AND(2)=1,S=40
2250 IF(1)=1AND(3)=1,S=40
2260 IF(2)=1AND(3)=1,S=40
2270 PRINT:PRINT:PRINT" YOUR SCORE SO FAR IS :-"S:M$=""
2280 GOSUB3000:RETURN
3000 PRINT@480,"PRESS <RETURN> TO CONTINUE";
3010 R$=INKEY$:T$=INKEY$:IFT$(>CHR$(13)),3010ELSERETURN
4000 PRINT@16,"BY SCOTT LE BRUN":RETURN
50000 REM INITIALISATION
50010 DIM O$(0),V$(V),D$(48),R$(48),C(0),L(0),F(35)
50020 DATA"AT A PLATEAU NEAR A CLIFF,A ROCKY PATH LEADS SOUTH"
50030 DATA" "," ","ON A ROCKY PATH LEADING NORTH & CURVING EAST"
50040 DATA"ON A PATH THAT LEADS WEST AND WINDS EAST"
50050 DATA"AT THE ENTRANCE TO A DARK CAVE"
50060 DATA" "," "
50070 DATA"INSIDE A NORTH-SOUTH TUNNEL"," "," "
50080 DATA"IN AN OVAL CAVERN.THERE IS A STAIRCASE LEADING DOWN"
50090 DATA" ","IN A COLD,SMALL ROOM"
50100 DATA" ","IN ROOM WITH COBWEB COVERED WALLS"
50110 DATA"IN AN IMMENSE CAVERN WITH TALL OMINOUS WALLS"
50120 DATA"IN A TRIANGULAR SUB-CHAMBER"
50130 DATA" ","IN AN ENORMOUS CAVE WITH A STONE PILLAR"
50140 DATA" ","IN AN OCTAGONAL ROOM","STALAGITE LITTERED ROOM"
50150 DATA"IN A ROOM WHICH THE ONLY WAY OUT IS THE WAY YOU CAME IN"
50160 DATA"IN A ROUND ROOM WITH A SPIRAL STAIRCASE LEADING DOWN"
50170 DATA"IN A LOW-HUGGING TUNNEL"," "," "
50180 DATA"IN A STRANGE TWISTED ROOM WITH WALLS OF ICE"
50185 DATA"IN A ROOM WITH STALAGMITES EMANATING EVERYWHERE"
50190 DATA" "," ","IN A ROOM WITH INCHES OF UNDISTURBED DUST"," "
50200 DATA" ","IN A ROOM ONLY REACHED BY MAGICAL MEANS"," "," "
50210 DATA" ","YOU ARE IN THE THRONE ROOM OF THE EVIL OVERLORD"
50220 DATA"IN COLD DARK TUNNEL WITH ROCKS STREWN EVERYWHERE"
50225 DATA A MAGICAL ROOM
50230 DATA" "," ","IN A VAST UNDERGROUND CAVERN"," "," "
50240 DATA"IN A ROOM WITH A SPIRAL STAIRCASE LEADING UP"
50250 FORI=1TO48:READD$(I):NEXT
52000 REM OBJECTS
52010 DATA CROWN,RING,GOBLET,BUN,ROD,LAMP
52020 FORI=1TO6:READO$(I):NEXT
52030 REM VERBS
52040 DATA N,S,W,E,U,D,EXAMINE,MOVE,GET,DROP,HELP
52050 DATA VOCABULARY,EAT,INVENTORY,SCORE
52060 FORI=1TOV:READV$(I):NEXT
53100 REM ROUTES
53110 DATA S," "," ",NE,WE,SW," "," ","NS," "," ",ND
53120 DATA " ",S," ",E,NS,NEU,W," ","NS," ",E,NWE,W
53130 DATA DE,SW," "," ",NE,SW," "," ",NS," "," ",N
53140 DATA " "," "," ",E,WE,WS," "," ",NS," "," ",NU
53150 FORI=1TO48:READR$(I):NEXT
53160 R=1:M$="OK"
53170 DATA 40,16,22,12,14,1
53180 FORI=1TO6:READL(I):NEXT
53190 H$(1)="YOU HAVE THE "
53195 H$(2)="YOU WILL HAVE TO DROP SOMETHING"
53200 H$(3)="A MAGICAL BARRIER BLOCKS THE WAY!"
55529 RETURN

```



continued from LE'VZ #10.

ADVENTURE by Scott Le BRUN

USING THE OUT PORT by Mr. Scott LE BRUN,

I have been experimenting with the <OUT(X),Y> command in conjunction with a GP100 Printer. OutPutting to Port # 0 stores the # in the output buffer and then releases it all with the <LLPRINT> command.

The # to be sent is the ASCII equivalent of the character you want Printed. It is Possible to create strings of characters in the same manner by repeating the Process with characters. EI. if you want to Print "HI" type in immediate mode:-

```
OUT(0),72 (72 ASCII - H)
OUT(0),73 (73 ASCII - i)
```

Type in these two short Programmes.

```
10 FORI=1TO16
20 READA
30 OUT(0),A
40 NEXT
50 A$=INKEY$
60 A$=INKEY$
70 IFA$=""THEN50
80 LPRINT
90 END
100 DATA76,69,39,86,90,50,48,48,47,51,48,48,32,79,79,80
```

MAKE SURE GP100 PRINTER IS ATTACHED AND OPERATIONAL.

```
10 FORI=123TO191
20 OUT(0),I
40 NEXT
50 A$=INKEY$
60 A$=INKEY$
70 IFA$=""THEN50
80 LPRINT
90 END
```

ENSURE THAT GP100 PRINTER IS ATTACHED AND OPERATIONAL.

BELOW IS RESULT OF THE PROGRAMME RUN THREE TIMES.

```
(1)~ ddddeeeeee#0B`QJ$AA000000$E$E$T↓↔
(1)~ ddddeeeeee#0B`QJ$AA000000$E$E$T↓↔
(1)~ ddddeeeeee#0B`QJ$AA000000$E$E$T↓↔
```

To <LIST> or <LLIST> when running a Programme. Will list last line operated on before <BREAK>ing. Will list from that line to end of Programme. Will list from start of Programme to that line.

PROGRAMMING HINT:- LISTING.

NEW SOFTWARE.

WORD SQUARES by Mr. John Ramsden.

This is a VZ version game seen in many magazines and Papers.

You select the words and the VZ "hides" them in a square of letters. You find the words which are hidden either vertically, horizontally or diagonally. A Print out of the entire maze or only of your chosen words is Possible. A very interesting game.

FROM CRAIG MILNER - PERTH.

JOYSTICK DRAWER

```
10 MODE(1)
20 X=0
30 Y=0
40 A=(INP(43)AND31)
50 IFA=23ANDX<127THENX=X+1
60 IFA=27ANDX>0THENX=X-1
70 IFA=30ANDY>0THENY=Y-1
80 IFA=29ANDY<63THENY=Y+1
90 SET(X,Y)
100 GOTO40
```

HI-RES GRAPHICS GEOMETRIC PLOTTING.

(A PLEA FOR MORE READABLE BASIC PROGRAMS)

The following program is a simple line plotting routine using the hi-res graphics screen. It was written to try and demonstrate how programming skills can be improved by following a few simple guidelines.

Unfortunately published programs in magazines are generally poor examples of how to develop good programming style. A number of us may have taken the trouble to enter a listing from a magazine - but upon running the program have found that all is not well with the code! A long, tedious and frustrating session-of understanding the poorly constructed code, determining all the twists and turns of the 'logical spaghetti', and debugging-commences. A usual remedy is to re-write the program from scratch. Not a very efficient process!

The program below is

1. Clearly coded and set out - an enormous help in UNDERSTANDING.
2. The program is STRUCTURED - a good algorithm is selected and the program 'flows' through initialization to input, procedure and output sections.
3. Loops are indented for ease of identification and nesting.
4. Naming of variables is meaningful to assist maintenance and debugging.
5. Integer storage is used where appropriate.
6. No abbreviated forms of BASIC statements are used.
7. Remarks are liberally sprinkled throughout to aid clarity.
8. Error capture and range checking on all input variables prevents program from crashing.

Clear readable code is more important than the execution speed or storage requirements of the program - interpreted BASIC runs like a tired snail in any case!

These guidelines should lead to code that is easier to read, understand and debug. This leads to easier maintenance, updating or expansion of your routines as your programming skills develop.

```

10 REM *****
20 REM PLOT A SET OF UP TO 20 LINES Introduction to program,
30 REM USING THE HI-RES SCREEN. version and author.
40 REM R.B.KITCH 22/10/85
50 REM *****
100 REM DIM STORAGE VECTORS X% & Y%
110 DIM X%(20), Y%(20) Vectors to hold end coordinates
120 REM ***ACCEPT INPUT AND CHECK***** of LN% lines - LN%+1 points.
130 PRINT "HOW MANY LINES - MAX 20":
INPUT LN%
140 IF LN%<1 OR LN%>20 THEN GO TO 130 Test input is not over-ranged.
150 FOR I% = 0 TO LN% Loop for LN%+1 X-Y points.
160 PRINT "ENTER X-VAL 0-127":
INPUT X%(I%)
170 IF X%(I%)<0 OR X%(I%)>127 Check value not off screen.
180 THEN GO TO 160
190 PRINT "ENTER Y-VAL 0-63":
INPUT Y%(I%)
200 IF Y%(I%)<0 OR Y%(I%)>63 Check value not off screen.
210 THEN GO TO 180
220 NEXT I% End of input loop.

```

```

300 REM***SET UP SCREEN AND MAIN LOOP*
310 MODE(1)
320 FOR I% = 0 TO LN%-1
330 X1%=X%(I%):X2%=X%(I%+1)
340 Y1%=Y%(I%):Y2%=Y%(I%+1)
350 REM ***ARE POINTS THE SAME?*****
360 IF X1%<>X2% OR Y1%<>Y2% THEN
GO TO 410
370 SET(X1%,Y1%):GO TO 710
400 REM ***CALC X AND Y DIFFERENCE***
410 DX%=X2%-X1%:DY%=Y2%-Y1%
420 REM ***SEE WHICH IS LARGER*****
430 IF ABS(DX%)>ABS(DY%) THEN
GO TO 610
500 REM ***INCREMENT IY*****
510 YS%=SGN(DY%):DG=DY%/DY%
520 XO=X1%+0.5
530 FOR IY% = Y1% TO Y2% STEP YS%
540 TP%=(IY%-Y1%)*DG+XO
550 IX%=INT(TP)
560 SET(IX%,IY%)
570 NEXT IY%
580 GO TO 710
600 REM***INCREMENT IX*****
610 XS%=SGN(DX%):DG=DY%/DX%
620 YO=Y1%+0.5
630 FOR IX% = X1% TO X2% STEP XS%
640 TP%=(IX%-X1%)*DG+YO
650 IY%=INT(TP)
660 SET(IX%,IY%)
670 NEXT IX%
700 REM***END LOOP FOR LINE*****
710 NEXT I%:SOUND 0.9
800 REM ***GO AGAIN?*****
810 PRINT " (E) TO EXIT"
820 PRINT " (P) TO PLOT AGAIN"
830 PRINT " (N) FOR NEW POINTS"
840 INPUT AN$
850 AN%=LEFT$(AN$,1)
860 IF AN%="E" THEN STOP
870 IF AN%="P" THEN GO TO 310
880 IF AN%="N" THEN GO TO 130
890 GO TO 810
900 END

```

Switch screen to hi-res.
Initialize main loop for lines.
Assign end points of line to temporary variables.

End points the same so PLOT point.
Pick up another line.

Change in X and Y directions.

Branch according to which difference is larger.
Increment along Y-axis.
Sign of STEP and GRADIENT.
X-axis OFFSET.
Initialize loop.
Temporary real X-value.
Integer X-value.
PLOT point.
END loop.

Pick up another line.
Increment along X-axis.
Sign of STEP and GRADIENT.
Y-axis OFFSET.

Initialize loop.
Temporary real Y-value.
Integer Y-value.
PLOT point.
END loop.

END main loop and PAUSE.

Screen message or MENU.

Accept response.
Accept leftmost character.
Logical end of program.
Go back and PLOT again.
Go back for more input.
Wrong response.
Physical end of program.

Lines 300-710 are a general purpose line plotting routine similar to the PLOT command on a MICROBEE.

Bob Kitch, 7 Eurella St., KENMORE, Qld., 4069 (07)378-3745

BASIC MONITOR FOR THE VZ200 by R.G.DAVIS

A very handy little program if you just want to experiment with machine code programing.

Enter the program and run, you will be given three choices ..

ONE..MEMOD You are asked for start and end address you then step through memory one byte at a time and are given the chance to enter new data in hex, press <RETURN> and step on to the next byte.

TWO..REVIEW displays on the screen 16 lines by 8 columns of hex data. Press <SPACE> to bring up the next 16 lines of data.

THREE..PRINTOUT use your printer to get a hex dump of your program. If you wish to have 16 bytes per line then change the end of line 9 to read..

FOR N=1 TO 16

MEMOD BY R.G.DAVIS 8 AVOCARDO ST MILDURA

```

1 CLS: CLEAR 500
2 PRINT "MEMOD      M"
3 PRINT "REVIEW     R"
4 PRINT "PRINTOUT   P"
5 INPUT Y$
6 IF Y$="M" THEN 12
7 IF Y$="R" THEN 17
8 GOSUB 30
9 GOSUB 61: LPRINT H$ " "B" ";: FOR N=1 TO 8
10 GOSUB 36: LPRINT H$ " ";
11 GOSUB 38: NEXT: LPRINT: GOTO 9
12 GOSUB 30: CLS
13 GOSUB 61: PRINT H$ " ": GOSUB 36
14 PRINT H$ " ";: INPUT B$
15 IF B$="" THEN 16 ELSE GOSUB 42: POKE M, F
16 GOSUB 38: GOTO 13
17 GOSUB 30: CLS
18 PRINT: FOR T=1 TO 16
19 PRINT: GOSUB 61: PRINT H$ " ";: FOR N=1 TO 8
20 GOSUB 36: PRINT H$ " ";
21 GOSUB 38: NEXT: NEXT
22 Z$=INKEY$: W$=INKEY$: IF W$<>" " THEN 22
23 GOTO 18

```

```

30 INPUT "START ADDRESS"; M: B=M
31 IF M<32768 THEN 33 ELSE Q=M
32 GOSUB 40: M=X
33 INPUT "END ADDRESS"; E
34 IF E<32768 THEN RETURN ELSE Q=E
35 GOSUB 40: E=X: RETURN
36 D=PEEK(M): DE=D: IF D<32 THEN DE=46
37 H$="": GOSUB 65: RETURN
38 M=M+1: IF M=32768 THEN GOSUB 41
39 IF M=E THEN END ELSE B=B+1: GOTO 61
40 X=-1*(65536-Q): RETURN
41 Q=M: GOSUB 40: M=X: RETURN
42 C$=B$: F=0: GOSUB 48
43 RETURN
44 IF C<58 THEN C=C-48
45 IF C>63 THEN C=C-55
46 RETURN
48 C=ASC(C$)
49 GOSUB 44: G=16*C: F=F+G
50 C$=RIGHT$(B$, 1): C=ASC(C$)
51 GOSUB 44: F=F+C: RETURN
61 H$="": A=B/4096: A=INT(A): GOSUB 67
62 D=B-4096*A
63 A=D/256: A=INT(A): GOSUB 67
64 D=D-256*A
65 A=D/16: A=INT(A): GOSUB 67
66 A=D-16*A
67 AB=A: IF A>9 THEN A=A+55 ELSE A=A+48
68 A$=CHR$(A): H$=H$+A$: A=AB: RETURN

```

SAMPLE OF PRINTOUT

```

8FF1 36849 21 00 70 11 01 70 01 FF
8FF9 36857 01 36 AA ED B0 C9

```

ANOTHER CONTRIBUTION FROM CRAIG MILNER OF PERTH.

BASIC DODGE

```

5 POKE 30744, 1: IF YOU HAVE A EARLIER
YOU DO NOT NEED THE POKE
6 CLS
10 A=28672: X=16
20 I$=INKEY$: IF I$="K" THEN X=X-1
30 IF I$="L" THEN X=X+1
40 IF PEEK(A+X)<>32 THEN 200
50 PRINT@X, "V";: S=S+1
60 PRINT@480+RND(31), "*"
70 GOTO 20
200 CLS
210 SOUND 1, 1: PRINT "GAME OVER ! ! !"
220 PRINT "SCORE="; S
230 IF INKEY$="S" THEN RUN ELSE 230

```

Grant Calhoun - 1985

```
1 REM"CHATTERBOX INTRO" UZ-200
12 DIMA(151)
22 DATA63,76,85,73,105,67,77,123,97,76,6
7,75,82
22 DATA 79,108,108,67,67,82,108,108,126,
126,118,119,67,91
24 DATA99,77,94,67,107,73,94,126,80,110,
125
32 DATA122,78,100,89,95,126,92,107,110,7
7,106,67,75,82,67,76,85
42 DATA73,105,67,76,110,95,106,122,126,7
8,124,109,66,66,126,45
52 DATA60,67,109,73,88,67,158,171,149,13
7,143,67
55 DATA226,246,247,67,203,205,223,251,22
5,205,126,126,234,230
56 DATA234,193,216,252,126,203,205,223,2
51,225,205,126
62 DATA126,206,252,237,194,235,126,206,2
52,237,194,235,126
72 DATA126,56,11,31,67,12,1,31,0,26,126,
45,11,24,67,31
82 DATA1,24,29,62,30,6,31,42,43,51,25,42
,126,63
92 FORX=0TO151:READA(X):NEXT:RESTORE
95 FORX=0TO151:GOSUB150:FORZ=0TO1:OUTZ,
A(X):NEXT:NEXT
98 GOT092
100 END
150 B=INP(0):IFB>0THEN150
151 RETURN
```

"My name is UZ-200 Chatterbox;
Grant is my master. Beware!
We will drive you insane, totally
insane! Beware! Beware! This
message will self destruct."

THIS EXPLAINS THE WORLD TIMES
PROG.. SENT IN BY A. DAVIS IN
A PREVIOUS LE'VZ.

WORLD TIMES BY R.G.DAVIS 12 7 1984

The program starts off by asking you to
Input your local time then in line 12
subtracts 10 hours (for eastern time).
If you live in S.A then line 12 would
read.....

12 Z=H-9:0=M-30

This changes the time to Greenwich time,
so the only line that will ever have to
be changed is line 12.....

Line 14 then checks for illegal times (<
zero or > 23,59)

Line 15 then draws the map of the world.
Extra cities can be added, as an
example...

80 E\$="HAWAII":Z=GH-10:0=GM-30:C1=
3:C2=2:X3=5:Y3=33:GOSUB 110

To look at this in more detail..

E\$="HAWAII" Writes HAWAII in HI RES
Z=GH-10:0=GH-30 subtracts 10 hours 30
minutes from G.M.T..

C1=3:C2=2 C1 is the contrast colour to
flash the pixel C2 resets pixel to
original colour..

X3=5:Y3=33 X,Y coordinates to flash the
pixel.

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P6 #11.

• • • INPUT/OUTPUT ON THE VZ • • • By SCOTT LE BRUN OOP A27

The I/O port of the VZ has 8 data pins labelled D0 - D7. These pins represent BITS (Binary digits). In binary a '1' is used to represent an 'ON' or 'HIGH' situation, where a '0' represents an 'OFF' or 'LOW' situation. The pins use '5V' to represent an 'ON' and a '0V' to represent an 'OFF'. To explain this further, refer to the diagram below.

For a binary equivalent of 10 decimal.

(refer to 2nd last page for conversions between the two)

D7 D6 D5 D4 D3 D2 D1 D0 - (pins)
0 0 0 0 1 0 1 0 - (high or low)

That means that there is a 'HIGH', 5V on pins D3 and D1, while the others are kept 'LOW', 0V.

O.K., so we know that there are 8 data pins with 5V or 0V on them. Now let's look at how we can put HIGHS and LOWs on those pins and how to detect whether or not a HIGH or LOW exists on those pins.

The <OUT(X),Y> command outputs data to the port, where 'X' is the port number and 'Y' is the decimal equivalent of the data to be transmitted.

The <A=INP(X)> command reads (looks at) the port, where 'X' is the port number and 'A' is the decimal value of the data detected.

We now know how to input & output to the port.

Consider the simple experiment below.

SINGLE BIT INPUT



Construct the circuit and type:-

```
10 PRINT INP(0)
20 GOTO 10
```

<RUN>. The screen should be printing a number less than 128. This is because we have a LOW on D7.

E9:- D7 D6 D5 D4 D3 D2 D1 D0
0 (any combination of 0 and 1)

D7 is the BIT we change.



The highest decimal number that can exist with D7 LOW, is 127.

E9:- D7 D6 D5 D4 D3 D2 D1 D0
0 1 1 1 1 1 1 1 (binary)

Now flick the switch, (while still <RUN>ing), and the screen should print a number equal to or greater than 128.

E9:- D7 D6 D5 D4 D3 D2 D1 D0
1 0 0 0 0 0 0 0 = 128
1 (any other combination) > 128

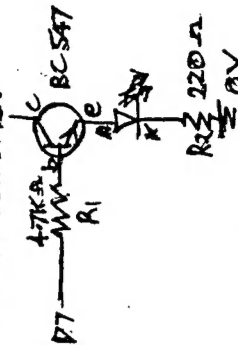
Will always be
'1' while switched
to '5V'.

*** NOTE ***

ALWAYS make sure that the computer is INPUTing while you change BIT values, otherwise the computer will crash.

Consider the simple experiment below.

SINGLE BIT OUTPUT 45V



When a HIGH is put on the BASE (b), current will pass from the COLLECTOR (c), to the EMITTER (e), i.e. - an electronic switch

When D7 goes HIGH, the L.E.D. will light. At all other times, the transistor will be switched off. The two resistors R1 & R2 are there just to limit the current a bit, so the L.E.D. won't expire.

Construct the circuit and type in the following:-

```
10 OUT(0),128
20 GOTO 10
```

While the program is <RUN>ing the L.E.D. should light. Edit line 10 to OUT(0),127, <RUN> & the L.E.D. should go out.

**** NOTE ****

Note that the VZ-200/300 is an 8-BIT computer, therefore the highest number that can be used to input or output is:-

D7 D6 D5 D4 D3 D2 D1 D0
1 1 1 1 1 1 1 1

=> 255 decimal

To be continued in a future LE'VZ.

*** * * SOFTWARE FOR SALE FROM VSOFTWAREZ * * ***

MARCH 1986.

All Prices are correct at time of Printing, but may change without notice. All articles available while stocks last.

All tape software includes Postage up to four tapes.

When ordering software, always state :- which computer VZ200 or VZ300, if you have an expansion RAM unit, and if you have a disc drive system connected.

VZ1 = unexpanded VZ200. VZ2 = unexpanded VZ300.
VZ3 = expanded VZ200. VZ4 = expanded VZ300.

TB15 = Tape only unit of B15. DB5 = Disc only unit of B5.

T/DE4 = Tape or Disc unit of E4. The Price stated is for a Tape unit. If a Disc unit is required, add \$5.00. to the Tape Price. The Price of a Disc unit is as stated.

To allow faster service, send bank, building society, credit union cheques, or Aust Post money orders so that time is not wasted in waiting for a cheque to be cleared.

Make cheques Payable to J.D'ALTON or VSOFTWAREZ.

*** * * NEW SOFTWARE. * * ***

- DB5 LE'VZ STATEMENT V2.0. \$185.00. VZ4.
For small business use. Based on LE'VZ D'BASE. Random access records. Requires the Disc Drive System, a Printer and VZ DTR. Process and Print end of month statement/s, labels, Pay into account etc. All money calculations carried out, IE. Debit, Paid in and Statement \$ totals. Comes with a 20 page instruction booklet. Write for more information or see a demonstration.
- D/TU12 FILESEARCH. \$ 10.00. VZ1-VZ4.
Reads the tape leader or disc directory to obtain the filetype, filename and start/end addresses of Basic or M/L Programmes. The Printer option will print labels.
- D/T19 COPY/PROTECT. \$ 30.00. VZ1-VZ4.
Incorporates two Programmes BREAKPROOF and FILECOPIER. Using BREAKPROOF on Basic Programmes produces versions which autorun and will automatically restart, if the <BREAK> key is Pressed. FILECOPIER allows the transfer of all Basic or Machine Code Programmes to or from tape or disc.
- DU20. DISC GUARD. \$ 60.00. VZ1-VZ4.
DISK GUARD Prevents easy copying of Programmes stored on Disc. IE. <DCOPY> and FILECOPIER cannot copy a DISKGUARDED Disc. Basic Programmes are automatically BREAKPROOFED to produce an autorun Programme, which will rerun, if the <BREAK> key is Pressed. That Programme cannot be effectively listed/listed.

NEXT LE'VZ # 12

Binary - decimal conversion. Screen handling capabilities of the VZ.
Bob Kitch's 2nd list of VZ items. And more.

EXISTING SOFTWARE.

- DE1-8 EDUDISK. \$ 50.00. VZ3-VZ4.
Educational Programmes E1 to E8 all on one Disc. It is menu driven so that a Programme is selected by a single key Press. Quite childProof.
- T/DE9 MEATPIES V2. \$ 15.00. VZ3-VZ4. Year (grade) 5-7.
Similar to E3, but features additional Graphics screens, more special events and Provision for the "game" to be saved to tape. This allows the student/s to continue on where it was left before.
- TU18. LOAD XX80 FILES. \$ 7.95. VZ3-VZ4. This allows loading of System 80 and TRS 80 (1) tapes. It is up to the user to modify the Programme to run on a VZ. Some simple Programmes will run ok without any changes.
- T/DG36 BLACKJACK. \$ 20.00. VZ3-VZ4.
The card game (Pontoon) can be Played by 3 People. Good low RES Graphics.
- T/DG37. POKER MACHINE. \$ 20.00. VZ3-VZ4.
Another Good low RES Graphics game. See if you can break the bank.
- T/DG38. WORDSQUARES. \$ 10.00. VZ2-VZ4.
The familiar game where you find words hidden in the maze of letters. You enter in the words and the VZ hides them for you. Very Good.
- T/DG39. COMPUTER MONOPOLY. \$ 15.00. VZ2-VZ4.
You Play the VZ at the famous game.

D/TU2	EDITOR/ASSEMBLER	\$ 20.00.	VZ3-VZ4.
D/TB1	CASH BOOK LEDGER	\$ 20.00.	VZ3-VZ4.
TU4	COLOUR GRAPHICS	\$ 10.00.	VZ3-VZ4.
D/TE1	KEYBOARD	\$ 8.00.	VZ1-VZ4.
D/TE2	WORDMATCHING	\$ 10.00.	VZ3-VZ4.
D/TE3	MEATPIES	\$ 10.00.	VZ3-VZ4.
D/TU3	UTILITY'S	\$ 15.00.	VZ3-VZ4.
TU5	WEAVING DRAFTS	\$ 10.00.	VZ1-VZ4.
D/TE4	MATHS COUNTDOWN	\$ 10.00.	VZ3-VZ4.
D/TE5	COORDINATES	\$ 10.00.	VZ2-VZ4.
D/TE6	TOWER OF HANOI	\$ 8.00.	VZ1-VZ4.
D/TE7	MICROSCOPE	\$ 8.00.	VZ3-VZ4.
D/TE8	BLOCK PUZZLER	\$ 10.00.	VZ1-VZ4.
TE20	PLUS and MINUS	\$ 6.50.	VZ1-VZ4.
TE24	MATHS	\$ 10.00.	VZ3-VZ4.
TE25	QUEENSLAND	\$ 6.50.	VZ1-VZ4.
TE27	EUROPEAN CAPITALS	\$ 6.50.	VZ1-VZ4.
TE30	CAMPING	\$ 6.50.	VZ1-VZ4.
D/TG2	MANSION and NOVA	\$ 12.50.	VZ1-VZ4.
MANSION... VZ3-VZ4. for NOVA			
D/TG3	VZ MONOPOLY.	\$ 12.50.	VZ3-VZ4.
TU12	SEARCHTAPE	\$ 10.00.	VZ1-VZ4.
D/TG13	SCOTLAND YARD	\$ 12.50.	VZ2-VZ4.
DB4	LE'VZ D-BASE	\$ 98.00.	VZ3-VZ4.
TB15	DATABASE-VZ	\$ 25.00.	VZ3-VZ4.
TG35	HAUNTED MANSION	\$ 12.50.	VZ3-VZ4.
TU6	VZ EXTENDED BASIC	\$ 15.00.	VZ1-VZ4.
TU7	PROTECT	\$ 14.95.	VZ3-VZ4.
TU8	CMERGE/DELETE/REN	\$ 12.50.	VZ3-VZ4.
TU9	MONITOR DEBUGGER	\$ 14.95.	VZ3-VZ4.
TU10	EXTENDED BASIC	\$ 12.50.	VZ3-VZ4.
TU11	ARRAY/RESTORE	\$ 14.95.	VZ3-VZ4.

You must have TU10 to use this one.

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10 '==DISK LLISTER==REQUIRES DISK DRIVE & PRINTER==
20 POKE30876,0: CLS: PRINT@10,"DISK LLISTER"
30 PRINT@64,"*INSERT DISK & CLOSE DRIVE DOOR*"
40 PRINT@193,,: INPUT"NAME OF DISK";N$
50 IFN$=""THEN40 ELSEIFN$="X" THEN END
60 LPRINT: LPRINTN$ "DISK": LPRINT: POKE30876,1: DIR: STATUS: GOT020
  
```

*** FOR SALE ***

HARDWARE and FIRMWARE.

VZ Data recorder \$60.00. used. with Power Pack.
GP 100 Printer without interface \$170.00. used.
LASER Light Pen with System Tape \$ 75.00. New.

\$

Printer ribbons for the GP100 \$11.50. each, new. These are not direct replacements, so you need to remove the axle from the original one and swap one half of the little case, worth the few minutes fiddle.

C10 Blank tapes in lots of 5 \$1.20. each new.

C20 Blank tapes in lots of 5 \$1.30. each new.

5.25 blank discs SSDD in Packs of 10 new. \$25.00.

VZ200 KEYBOARD.

If you have to Press certain keys harder or a few times to get them to work, then don't throw the VZ away. Replace the whole rubber keypad. It is the keys that protrude through the darker Panel that has the statements Printed on it. the rest of the rubber underneath joins the keys together. It is no use cleaning the Print board or the ends of the keys, as this makes matters worse.

The end of each key has a black substance (Probably Graphite) embedded into it. The resistance in OHMS must be no higher than 500OHMS between a distance of about two (2) MM. Use sharp Probes to measure it. Anyway, the keypad can be bought from DSE. for about \$6.00. I think they refer to it as a rubber membrane.

I must thank the staff of various Dick Smith stores in Australia for letting folk know of the existence of my LE'VZ 200/300 OOP group. I have even received Phone calls via the DSE. Hot Line in Sydney.
THANKS !!!

SORRY AGAIN.

MICRO MAGIC.

I advise OOPs again of the other main VZ user group. Mr. Gordon Browell 7 Abbott Crescent MALAK. DARWIN N.T. 5793. He Prints a newsletter and now Beginner's Guide to the VEEZED. Write to Gordon for details.

SOME PAGES OF THIS ISSUE ARE NOT AS GOOD AS I WOULD LIKE THEM. BUT THERE IS MORE IN THIS ISSUE!!
—J.O.

VZ 200 RAM EXPANSION UNIT.

by CFN P. Jackson of Glenorchy.

In the VZ200 exp unit, the wire link between 1-4 can be changed to links 1-5. If the unit is plugged into a VZ300 the Top of Memory becomes E000H (57344 Dec). If the link is changed to 5-2, then the TOM becomes FFFFFH (65535 Dec). A small switch can be fitted to select VZ200 or VZ300.

(I have not had time to try the changes or study the circuit so cannot vouch for what the contributor has sent me. At first sight it seems possible. Some OOPs may have seen Steve Olney's article in E.T.I. Feb 1986, whereby he fits an additional I/C to do a similar job. If anyone tries the above, Please let me know the results. ED.)

*** TUITION. ***

Beginners BASIC tuition is available, on a one pupil basis with hands on experience and Printouts of required sections of the lesson. Contact me for further details.

P10 # 11.